EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	409	713/164	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:34
L2	6803	713/201	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:34
L3	7498	713/201 or 726/3 or 380/270 or 713/152	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:35
L4	7729	3 or 1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:35
L5	0	"priviledged mode" and application and wireless and device and function$1 and execut$4 and task and invok$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:36
L6	25	"privileged mode" and application and wireless and device and function$1 and execut$4 and task and invok$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:36
L7	2	6 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:50
L8	5	kelly.inv. and chandrasekhar.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:50

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L9	9	kelley.inv. and chandrasekhar.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/07 14:50

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Page 2

US005892900A

United States Patent [19]

Ginter et al.

[11] **Patent Number:** 5,892,900

[45] **Date of Patent:** Apr. 6, 1999

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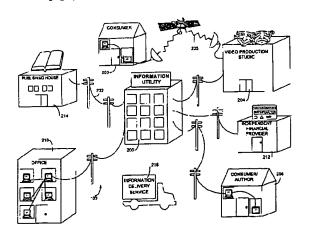
(List continued on next page.)

Primary Examiner—Robert W. Beausoliel, Jr.
Assistant Examiner—Pierre F. Elisca
Attorney, Agent, or Firm—Nixon & Vanderhye P.C.

[57] **ABSTRACT**

The present invention provides systems and methods for electronic commerce including secure transaction management and electronic rights protection. Electronic appliances such as computers employed in accordance with the present invention help to ensure that information is accessed and used only in authorized ways, and maintain the integrity, availability, and/or confidentiality of the information. Secure subsystems used with such electronic appliances provide a distributed virtual distribution environment (VDE) that may enforce a secure chain of handling and control, for example, to control and/or meter or otherwise monitor use of electronically stored or disseminated information. Such a virtual distribution environment may be used to protect rights of various participants in electronic commerce and other electronic or electronic-facilitated transactions. Secure distributed and other operating system environments and architectures, employing, for example, secure semiconductor processing arrangements that may establish secure, protected environments at each node. These techniques may be used to support an end-to-end electronic information distribution capability that may be used, for example, utilizing the "electronic highway."

220 Claims, 163 Drawing Sheets

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1 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: 📄 pdf(613.63 KB)   Additional Information: full citation, references, citings, index terms
🌐 html(2.78 KB)

2 Fast and scalable handoffs for wireless internetworks

Ramón Cáceres, Venkata N. Padmanabhan
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: 📄 pdf(1.35 MB)   Additional Information: full citation, references, citings, index terms

3 Fast and scalable wireless handoffs in supports of mobile Internet audio

Ramón Cáceres, Venkata N. Padmanabhan
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(187.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

Future internetworks will include large numbers of portable devices moving among small wireless cells. We propose a hierarchical mobility management scheme for such networks. Our scheme exploits locality in user mobility to restrict handoff processing to the vicinity of a mobile node. It thus reduces handoff latency and the load on the internetwork. Our design is based on the Internet Protocol (IP) and is compatible with the Mobile IP standard. We also present experimental results for the I ...

4 DRM experience: Digital rights management in a 3G mobile phone and beyond

Thomas S. Messerges, Ezzat A. Dabbish
October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**

Publisher: ACM Press

Full text available: pdf(306.59 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for protecting digital content in the embedded environment of a mobile phone is proposed and the elements in this system are defined. The means to enforce security in this system are described and a novel "Family Domain" approach to content management ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

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5 Research directions in virtual environments: report of an NSF Invitational Workshop, March 23-24, 1992, University of North Carolina at Chapel Hill
Gary Bishop, Henry Fuchs
August 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(2.33 MB)   Additional Information: full citation, citings, index terms

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6 Security in embedded systems: Design challenges
Srivaths Ravi, Anand Raghunathan, Paul Kocher, Sunil Hattangady
August 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 3
Publisher: ACM Press

Full text available: pdf(3.67 MB)   Additional Information: full citation, abstract, references, index terms, review

Many modern electronic systems---including personal computers, PDAs, cell phones, network routers, smart cards, and networked sensors to name a few---need to access, store, manipulate, or communicate sensitive information, making security a serious concern in their design. Embedded systems, which account for a wide range of products from the electronics, semiconductor, telecommunications, and networking industries, face some of the most demanding security concerns---on the one hand, they are oft ...

Keywords: Embedded systems, architecture, authentication, battery life, cryptographic algorithms, decryption, encryption, hardware design, processing requirements, security, security attacks, security protocols, tamper resistance

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7 Distributed processing of reminding tasks within the mobile memory aid system, MEMOS
Andrei Voinikonis, Klaus Irmscher, Hendrik Schulze
September 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 5
Publisher: Springer-Verlag
Full text available: pdf(276.93 KB)   Additional Information: full citation, abstract

The mobile extensible memory and orientation system (MEMOS) is a nomadic computing system designed to support patients with disturbances in the prospective memory. The system consists of two parts which are loosely connected via general packet radio service (GPRS): a mobile electronic device [personal memory assistant (PMA)] to remind the patient of important tasks and a base station that coordinates the activities of caregivers

and notifies them about the result of the task execution. A major r ...

Keywords: Assistive technology, Cognitive prosthesis, Electronic memory aid, Health care application, Mobile computing

8 <u>Brave new topics 1: multimedia challenges for planetary scale applications: IrisNet: an internet-scale architecture for multimedia sensors</u>

Jason Campbell, Phillip B. Gibbons, Suman Nath, Padmanabhan Pillai, Srinivasan Seshan, Rahul Sukthankar
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(1.33 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Most current sensor network research explores the use of extremely simple sensors on small devices called motes and focuses on over-coming the resource constraints of these devices. In contrast, our research explores the challenges of multimedia sensors and is motivated by the fact that multimedia devices, such as cameras, are rapidly becoming inexpensive, yet their use in a sensor network presents a number of unique challenges. For example, the data rates involved with multimedia sensors are or ...

Keywords: multimedia sensors, sensor networks, wide-area sensing infrastructure

9 <u>Applications: Using XForms to simplify Web programming</u>

Richard Cardone, Danny Soroker, Alpana Tiwari
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(1.03 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The difficulty of developing and deploying commercial web applications increases as the number of technologies they use increases and as the interactions between these technologies become more complex. This paper describes a way to avoid this increasing complexity by re-examining the basic requirements of web applications. Our approach is to first separate client concerns from server concerns, and then to reduce the interaction between client and server to its most elemental: parameter passing. ...

Keywords: J2EE, MVC, Web application, XForms, XMLBeans, eclipse, visual builder

10 <u>Level set and PDE methods for computer graphics</u>

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.07 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

11

<u>Robust header compression (ROHC) in next-generation network processors</u>

David E. Taylor, Andreas Herkersdorf, Andreas Döring, Gero Dittmann
August 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 4
Publisher: IEEE Press
Full text available: pdf(849.58 KB)   Additional Information: full citation, abstract, references, index terms

Robust Header Compression (ROHC) provides for more efficient use of radio links for wireless communication in a packet switched network. Due to its potential advantages in the wireless access area and the proliferation of network processors in access infrastructure, there exists a need to understand the resource requirements and architectural implications of implementing ROHC in this environment. We present an analysis of the primary functional blocks of ROHC and extract the architectural implic ...

Keywords: ASIC, ASIP, FPGA, ROHC, hardware assist, header compression, network processor, reconfigurable hardware

12 Dynamic Fault-Tolerance and Metrics for Battery Powered, Failure-Prone Systems
Phillip Stanley-Marbell, Diana Marculescu
November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**
Publisher: IEEE Computer Society
Full text available: pdf(496.57 KB)   Additional Information: full citation, abstract, index terms

Emerging VLSI technologies and platforms are giving rise tosystems with inherently high potential for runtime failure.Such failures range from intermittent electrical and mechanicalfailures at the system level, to device failures at the chip level.Techniques to provide reliable computation in the presence offailures must do so while maintaining high performance, withan eye toward energy efficiency. When possible, they shouldmaximize battery lifetime in the face of battery discharge non-lineariti ...

13 Re-configurable computing in wireless
Bill Salefski, Levent Caglar
June 2001 **Proceedings of the 38th conference on Design automation**
Publisher: ACM Press
Full text available: pdf(240.76 KB)   Additional Information: full citation, abstract, references, citings, index terms

Wireless communications requires a new approach to implement the algorithms for new standards. The computational demands of these standards are outstripping the ability of traditional signal processors, and standards are changing too quickly for traditional hardware implementation. In this paper we outline how reconfigurable processing can meet the needs for wireless base station design while providing the programmability to allow not just field upgrades as standards evolve, but also to a ...

14 An ns-based Bluetooth Topology Construction Simulation Environment
Chia-Jui Hsu, Yuh-Jzer Joung
March 2003 **Proceedings of the 36th annual symposium on Simulation**
Publisher: IEEE Computer Society
Full text available: pdf(470.02 KB)   Additional Information: full citation, abstract, index terms

Bluetooth is an emerging technology in wireless applications,and many related issues are yet to be explored bothin academia and industry. Because of the complexity andthe dynamics of computer networks, a good simulation toolplays an important role in the development stage. Of the existingsimulation tools, ns is a popular, open-source packagethat has a substantial support for simulation of TCP,routing, and multicast protocols over wired and wirelessnetworks. It also has BlueHoc as its extension f ...

15 A diary study of work-related reading: design implications for digital reading devices

Annette Adler, Anuj Gujar, Beverly L. Harrison, Kenton O'Hara, Abigail Sellen

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(1.25 MB)   Additional Information: full citation, references, citings, index terms

Keywords: design, diary study, digital document readers, electronic books, field study, paper documents, reading, user behaviour, virtual paper, writing

16 BlueSky: a cordless networking solution for palmtop computers

Pravin Bhagwat, Ibrahim Korpeoglu, Chatschik Bisdikian, Mahmoud Naghshineh, Satish K. Tripathi

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(1.31 MB)   Additional Information: full citation, references, index terms

17 Enabling fast and effortless customisation in accelerometer based gesture interaction

Jani Mäntyjärvi, Juha Kela, Panu Korpipää, Sanna Kallio

October 2004 **Proceedings of the 3rd international conference on Mobile and ubiquitous multimedia MUM '04**

Publisher: ACM Press

Full text available: pdf(180.23 KB)   Additional Information: full citation, abstract, references

Accelerometer based gesture control is proposed as a complementary interaction modality for handheld devices. Predetermined gesture commands or freely trainable by the user can be used for controlling functions also in other devices. To support versatility of gesture commands in various types of personal device applications gestures should be customisable, easy and quick to train. In this paper we experiment with a procedure for training/recognizing customised accelerometer based gestures with m ...

Keywords: gesture control, gesture recognition, human computer interaction, input technology, mobile devices

18 Video and multimedia digital libraries: A multilingual, multimodal digital video library system

Michael R. Lyu, Edward Yau, Sam Sze

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(440.24 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents the iVIEW system, a multi-lingual, multi-modal digital video content management system for intelligent searching and access of English and Chinese video contents. iVIEW allows full content indexing, searching and retrieval of multi-lingual text, audio and video material. It consists image processing techniques for scenes and scene changes analyses, speech processing techniques for audio signal transcriptions, and multi-lingual natural language processing techniques for word r ...

Keywords: applications, browser on mobile devices, middleware and browser

interactions, multi-modal interactions, multimedia management and support

19 <u>A memory aid with remote communication using distributed technology</u>
Andrea Szymkowiak, Kenny Morrison, Peter Gregor, Prveen Shah, J. Evans, A. Wilson
January 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 1
Publisher: Springer-Verlag
Full text available: <u>pdf(252.40 KB)</u>   Additional Information: <u>full citation, abstract, index terms</u>

Electronic memory aids have been used successfully to give reminders to individuals with memory problems. These aids usually present short action reminders that are acknowledged by the user. The recent enhancement of handheld computers with wireless technology has rendered them multi-functional and presents an opportunity to be exploited to meet the demands of the user. This paper describes the architecture of an electronic memory aid system we have developed and are currently evaluating with me ...

Keywords: Elderly, Memory-impaired users, Personal digital assistant, Remote communication

20 <u>Discrete mobile centers</u>
Jie Gao, Leonidas Guibas, John Hershberger, Li Zhang, An Zhu
June 2001 **Proceedings of the seventeenth annual symposium on Computational geometry**
Publisher: ACM Press
Full text available: <u>pdf(222.44 KB)</u>   Additional Information: <u>full citation, abstract, references, citings, index terms</u>

\emph{We propose a new randomized algorithm for maintaining a set of c lusters among moving nodes in the plane. Given a specified cluster radius, our algorithm selects and maintains a variable subset of the nodes as cluster centers. This subset has the property that (1) balls of the given radius centered at the chosen nodes cover all the others and (2) the number of centers selected is a constant-factor approximation of the minimum possible. As the nodes move, an event-based kinetic data s ...

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